

Irish Standard I.S. EN 61988-2-1:2012

Plasma display panels -- Part 2-1: Measuring methods - Optical and optoelectrical (IEC 61988-2-1:2012 (EQV))

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(IEC 61988-2-1:2012)

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- 2 -

Foreword

The text of document 110/337/FDIS, future edition 2 of IEC 61988-2-1, prepared by IEC TC 110, "Flat panel display devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61988-2-1:2012.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national	(dop)	2012-11-28
•	standard or by endorsement latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-02-28

This document supersedes EN 61988-2-1:2002 and EN 61988-2-2:2003.

EN 61988-2-1:2012 includes the following significant technical changes with respect to EN 61988-2-1:2002:

- EN 61988-2-1:2002 and EN 61988-2-2:2003 were combined and reconstructed in this document.

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61988-2-1 NOTE Harmonized as EN 61988-2-1.
IEC 61988-2-2 NOTE Harmonized as EN 61988-2-2.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60107-1	-	Methods of measurement on receivers for television broadcast transmissions - Part 1: General considerations - Measurements at radio and video frequencie	EN 60107-1 s	-
IEC 61988-1	-	Plasma display panels - Part 1: Terminology and letter symbols	EN 61988-1	-
IEC 62087	-	Methods of Measurement for the power consumption of audio, video and related equipment	EN 62087	-
CIE 15	-	Colorimetry	-	-

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I.S. EN 61988-2-1:2012

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-2-

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CONTENTS

FO	REWC)RD		4	
1	Scope				
2	Normative references				
3	Term	s and d	efinitions	6	
4			measuring equipment		
5			asuring conditions		
5			-		
	5.1	Environmental conditions			
	5.2	5.2.1			
		5.2.1	General Measuring layout		
		5.2.2	Field frequency		
		5.2.3			
		5.2.4	Adjustment of PDP modules		
	5.3		g conditionsg		
	5.5	5.3.1	Dark-room conditions		
		5.3.1			
6	Moos		Bright-room conditions ethods		
O		•			
	6.1		ring methods of 4 % window luminance		
		6.1.1	Purpose		
		6.1.2	Measuring equipment		
	0.0	6.1.3	Measurement		
	6.2		ring method of luminance uniformity		
		6.2.1	Purpose		
		6.2.2	Measuring equipment		
	6.2	6.2.3	Measurement		
	6.3	6.3.1	ring method of dark-room contrast ratio		
		6.3.2	Measuring equipment		
		6.3.3	Measurement		
	6.4				
	0.4	3			
		6.4.2	General		
		6.4.3	Purpose Measuring equipment		
		6.4.4	Measurement		
	6.5		ring method of white chromaticity and chromatic uniformity		
	0.5	6.5.1	Purpose		
		6.5.2	Measuring equipment		
		6.5.3	Measurement		
	6.6		ring method of colour gamut		
	0.0	6.6.1	Purpose		
		6.6.2	Measuring equipment		
		6.6.3	Measurement		
	6.7		ring method of module power and current consumption		
	0.1	6.7.1 Purpose			
		6.7.1	Measuring equipment		
		6.7.3	Measurement		
		5.7.0			

61988-2-1 © IEC:2012

- 3 -

	6.8	Measu	ring method of module power consumption using video signal	21
		6.8.1	General	21
		6.8.2	Measuring equipment	21
		6.8.3	Applied digital video signal	21
		6.8.4	Image processing board	21
		6.8.5	Measurement	22
	6.9	Measu	ring method of module luminous efficacy	23
		6.9.1	Purpose	
		6.9.2	Measuring equipment	
		6.9.3	Measurement	
	6.10		ring method of panel luminous efficacy	
			Purpose	
			Measuring equipment	
			Panel conditions	
			Driving waveform	
			Applied display patterns	
			Measurement	27
			ative) Clause cross-references from the previous edition of	0.4
			002 and IEC 61988-2-2:2003 to IEC 61988-2-1:2011	
Bibl	iogra	ohy		33
Figu	ıre 1 -	– Meası	uring layout (side view)	8
Figu	ıre 2 -	– Exam	ple of bright-room conditions	10
Figu	ıre 3 -	– 4 % w	indow luminance measuring pattern	11
Fiqu	ıre 4 -	- Meası	uring points	13
_			um luminance measuring pattern	
			ple of the colour gamut measurement	
_		,	•	
_			ple of power and current measuring diagram	
_		-	m diagram of sustain power measurement	
Figu	ıre 9 -	– Drivin	g system and waveform	27
Tab	le 1 –	Examp	le of luminance uniformity measurement	13
Tab	le 2 –	Examp	le of chromaticity measurement	17
			ele of power and current measurements (for a module that includes an	
				20
	. ,		le of power and current measurement (for a module with DC inputs	
				20
Tab	le 5 –	Examp	le of measurement results of module power consumption using video	
sign	ıal			22
Tah	le A 1	– Clau	se cross-references	32

-4 -

61988-2-1 © IEC:2012

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PLASMA DISPLAY PANELS -

Part 2-1: Measuring methods – Optical and optoelectrical

FOREWORD

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International Standard IEC 61988-2-1 has been prepared by IEC technical committee 110: Electronic display devices.

This second edition cancels and replaces the first edition published in 2002. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

 The first edition of IEC 61988-2-1 and IEC 61988-2-2 were combined and reconstructed in this document.

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- 5 -

The text of this standard is based on the following documents:

FDIS	Report on voting
110/337/FDIS	110/352/RVD

Full information on the voting for the approval on this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 61988 series, under the general title *Plasma display panels*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- amended.

- 6 **-**

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PLASMA DISPLAY PANELS -

Part 2-1: Measuring methods – Optical and optoelectrical

1 Scope

This part of IEC 61988 determines the following measuring methods for characterizing the performance of plasma display modules (PDP modules):

- a) four per cent (4 %) window luminance;
- b) luminance uniformity;
- c) dark-room contrast ratio;
- d) bright-room contrast ratio 100/70;
- e) white chromaticity and chromatic uniformity;
- f) colour gamut in the centre box;
- g) module power and current consumption;
- h) module power consumption using video signal;
- i) module luminous efficacy, and
- j) panel luminous efficacy.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-1, Environmental Testing – Part 1: General and guidance

IEC 60107-1, Methods of measurement on receivers for television broadcast transmissions – Part 1: General considerations – Measurements at radio and video frequencies

IEC 61988-1, Plasma display panels – Part 1: Terminology and letter symbols

IEC 62087, Methods of measurement for the power consumption of audio, video and related equipment

CIE 15:2004, Colorimetry

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61988-1, IEC 60068-1, and IEC 60107-1, as well as the following, apply.



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